

EPA ID: KYD981020142 Site Name: MIDDLETON, CARLIE METAL YARD

State ID:

Alias Site Names: MIDDLETON, CARLIE METAL YARD

City: NOLIN

County or Parish: HARDIN

State: KY

Refer to Report Dated: 03/30/2005

Report Type: ~~SITE REASSESSMENT~~ 001

Report Developed by: START

**DECISION:**

☒ 1. Further Remedial Site Assessment under CERCLA (Superfund) is not required because:

☒ 1a. Site does not qualify for further remedial site assessment under CERCLA (No Further Remedial Action Planned ~~NFRAP~~)

☐ 1b. Site may qualify for action, but is deferred to:

☐ 2. Further Assessment Needed Under CERCLA:

2a. Priority: ☐ Higher ☐ Lower

2b. Other: (recommended action) NFRAP (No Further Remedial Action Planned)

S: CARLIE

B: 1.8

Other: 1.2

**DISCUSSION/RATIONALE:**

The U.S. Environmental Protection Agency (EPA) has determined that no further remedial action by the Federal Superfund program is warranted at the referenced site, at this time. The basis for the no further remedial action planned (NFRAP) determination is provided in the attached document. A NFRAP designation means that no additional remedial steps under the Federal Superfund program will be taken at the site unless new information warranting further Superfund consideration or conditions not previously known to EPA regarding the site are disclosed. In accordance with EPA's decision regarding the tracking of NFRAP sites, the referenced site may be removed from the CERCLIS database and placed in a separate archival database as a historical record if no further Superfund interest is warranted. Archived sites may be returned to the CERCLIS site inventory if new information necessitating further Superfund consideration is discovered.

This site was assessed under the HRS following an EPA removal action in which 5,000 tons of soil were removed from the site. Due to insufficient targets, no further remedial action is planned.

Report shows submittal date of 03/30/2005, Rev. 0. The final document was actually submitted in Nov. 2005 and is Revision 1.

Site Decision Made by: DONNA K. WEBSTER, RPM

Signature: DK Webster



10558455

Date: 12/05/2005

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10/2/85

RECEIVED  
UNCONTROLLED SITE REPORT  
Nov 4 9 00 AM '85DIVISION OF  
WASTE MANAGEMENT

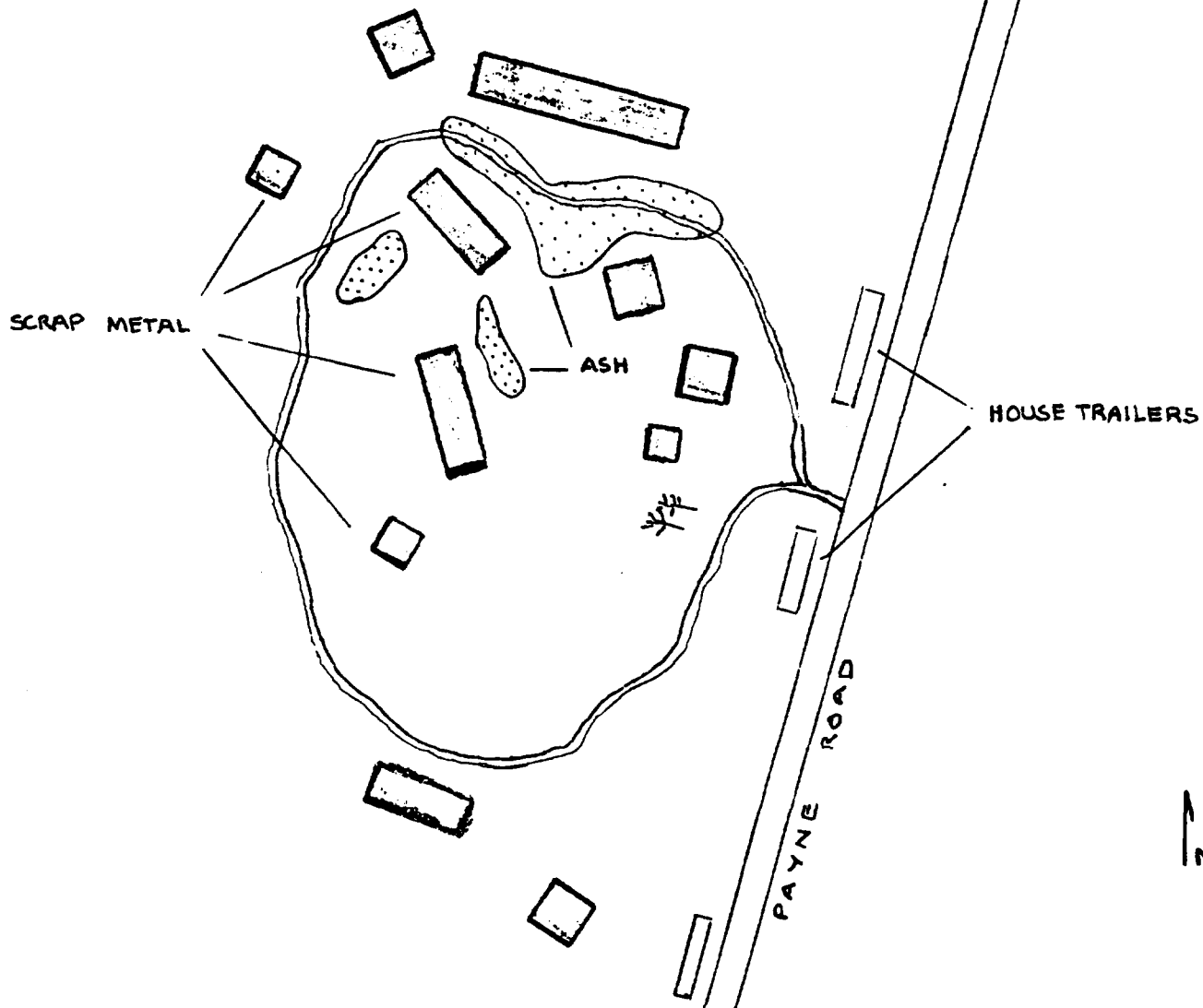
1. Date/Time Site First Reported 7/12/85 1315
2. Site Discovered/Reported By Carlie Middleton  
(b)(6) Personal Privacy  
Address [REDACTED] Phone:
3. Type of Site:  
☐ Drum Storage  
☐ Land Disposal (Describe Type:)  
☒ Other (Describe:) Metal Recovery Site wire coating burning etc
4. Approximate Quantity of Actual or Potential Hazardous Substance Released Or Available for Release  
☐ Drums  
☒ Cubic Yards 100 +  
☐ Gallons  
☒ Other unspecified ash and soil contamination
5. Types, Categories, and/or Compounds of Potential or Actual Hazardous Substances Present. Describe: PER LAB ANALYSIS LEAD 7950 mg/kg
6. SITE LOCATION. Describe or Attach Map.: OWNER: CARLIE MIDDLETON  
Site is 1 mi West of Nolin and turn left on 1st  
road, go to 3 house trailers on right. Metal yard  
is back of Trailers.

**APPENDIX C**

1868

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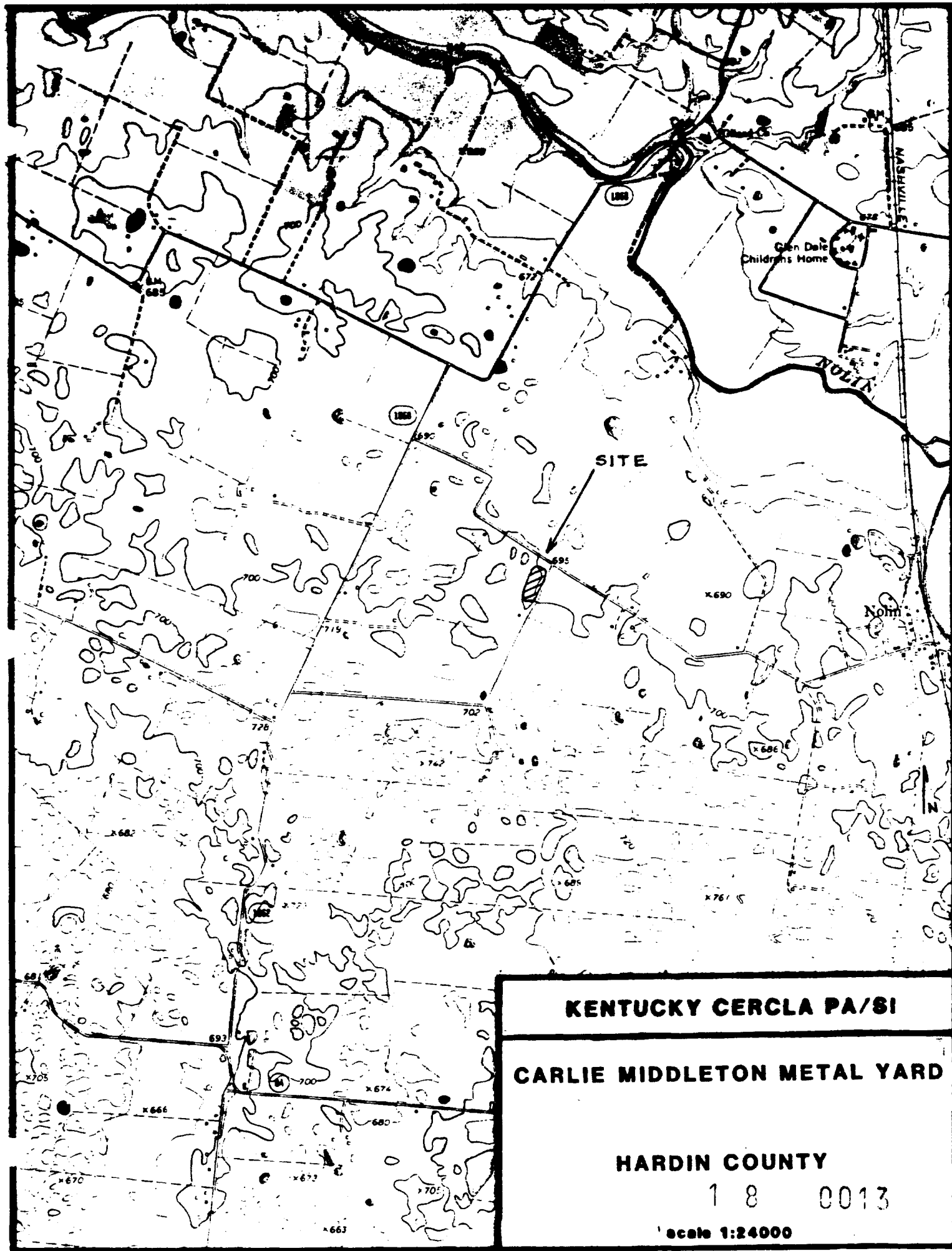


KENTUCKY CERCLA PA/SI

CARLIE MIDDLETON METAL YARD

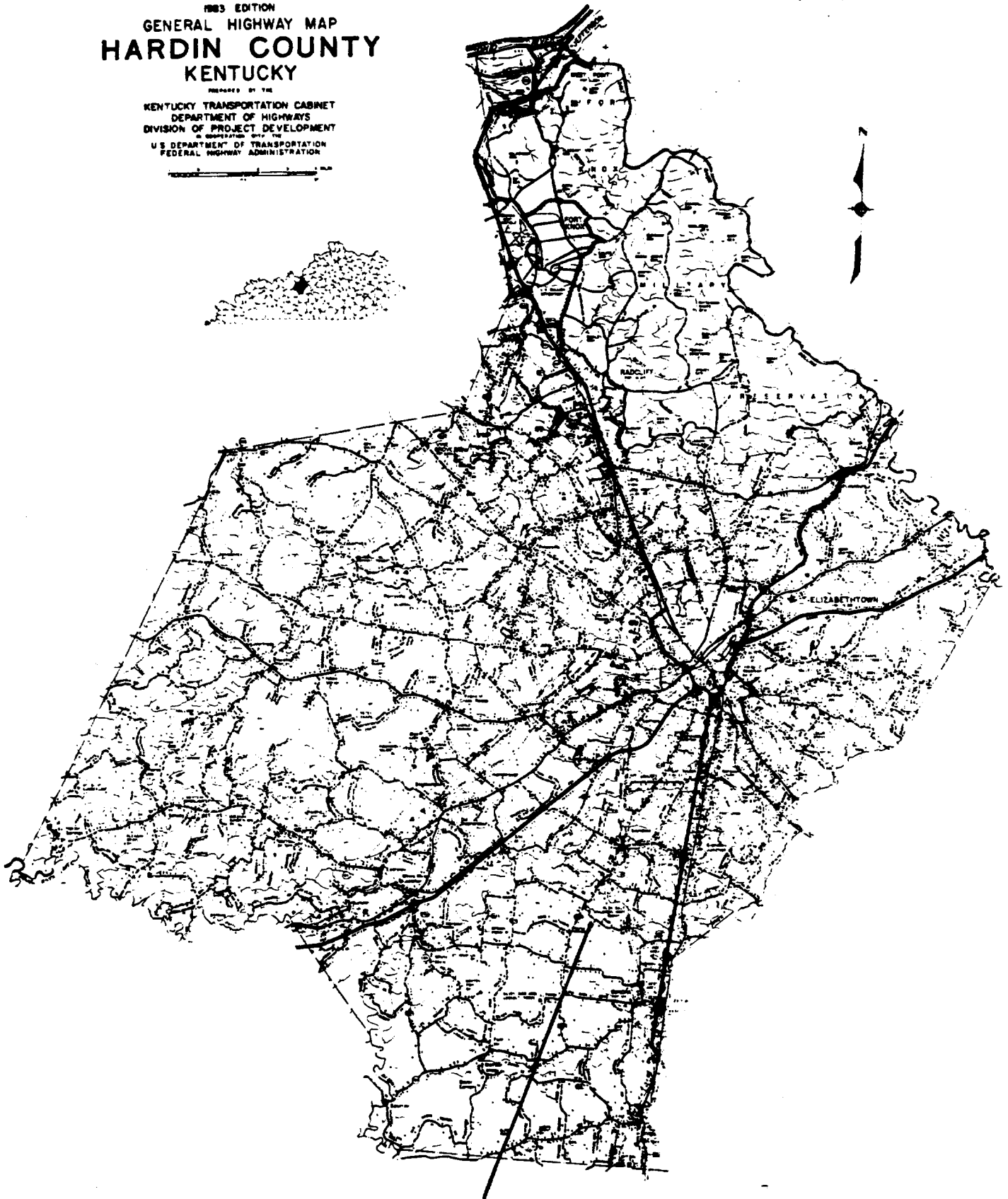
HARDIN COUNTY

NOT TO SCALE



1963 EDITION  
GENERAL HIGHWAY MAP  
**HARDIN COUNTY**  
KENTUCKY

PREPARED BY THE  
KENTUCKY TRANSPORTATION CABINET  
DEPARTMENT OF HIGHWAYS  
DIVISION OF PROJECT DEVELOPMENT  
IN COOPERATION WITH THE  
U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION



**CARLIE MIDDLETON METAL YARD**

**HARDIN COUNTY**

**APPENDIX B**





**POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT**  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

**I. IDENTIFICATION**

01 STATE 02 SITE NUMBER

KY KY098102042

**II. HAZARDOUS CONDITIONS AND INCIDENTS**01 ☒ A. GROUNDWATER CONTAMINATION03 POPULATION POTENTIALLY AFFECTED: 51302 ☐ OBSERVED (DATE: \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

Potential for groundwater contamination where contaminants may enter groundwater water from surface runoff via sinkholes

01 ☐ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

No surface water contamination potential due to lack of intermittent or perennial streams. Drainage from site enters sinkholes

01 ☒ C. CONTAMINATION OF AIR03 POPULATION POTENTIALLY AFFECTED: 51302 ☐ OBSERVED (DATE: \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☒ ALLEGED

potential for contamination of air due to burning practices of the metal yard

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

No known explosive material onsite. Fire is a potential threat

01 ☒ E. DIRECT CONTACT03 POPULATION POTENTIALLY AFFECTED: 2302 ☐ OBSERVED (DATE: \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

Possibility for direct contact for metal yard workers

01 ☒ F. CONTAMINATION OF SOIL03 AREA POTENTIALLY AFFECTED: 6.0  
(Acres)02 ☒ OBSERVED (DATE: 1/29/86)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

soil onsite is known to be contaminated although extent is not known.

01 ☒ G. DRINKING WATER CONTAMINATION03 POPULATION POTENTIALLY AFFECTED: 51302 ☐ OBSERVED (DATE: \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

RURAL CNTY residents use wells and springs for water supplies

01 ☒ H. WORKER EXPOSURE/INJURY03 WORKERS POTENTIALLY AFFECTED: 2302 ☐ OBSERVED (DATE: \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

metal yard workers potential exposed to contaminants

01 ☐ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

None observed to date



**POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 1 - SITE INFORMATION AND ASSESSMENT**

**I. IDENTIFICATION**

01 STATE 02 SITE NUMBER

KY KYD981020142

**II. SITE NAME AND LOCATION**

01 SITE NAME (Legal, common, or descriptive name of site) <u>Carlie Middleton Metal Yard</u>		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER <u>Payne Road</u>			
03 CITY <u>Nolin</u>		04 STATE <u>KY</u>	05 ZIP CODE <u>42776</u>	06 COUNTY <u>Hardin</u>	07 COUNTY CODE <u>093</u>
09 COORDINATES LATITUDE <u>37 33 52.7</u>		LONGITUDE <u>085 55 31.2</u>			

**10 DIRECTIONS TO SITE (Starting from nearest public road)**

State route 1407 west from Nolin approximately 1.2 miles. Turn left south on Payne road approximately 0.1 miles site is located on the right north behind three house trailers 100 yds. off the road.

**III. RESPONSIBLE PARTIES**

01 OWNER (If known) <u>Mr. Carlie Middleton</u>		02 STREET (Business, mailing, residence) <u>(b)(6) Personal</u>			
03 CITY <u>Sonora</u>		04 STATE <u>KY</u>	05 ZIP CODE <u>42776</u>	06 TELEPHONE NUMBER <u>( )</u>	
07 OPERATOR (If known and different from owner) <u>SAME</u>		08 STREET (Business, mailing, residence)			
09 CITY		10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER <u>( )</u>	

13 TYPE OF OWNERSHIP (Check one)  
☒ A. PRIVATE    ☐ B. FEDERAL: \_\_\_\_\_ (Agency name)  
☐ F. OTHER: \_\_\_\_\_ (Specify)  
☐ C. STATE    ☐ D. COUNTY    ☐ E. MUNICIPAL  
☐ G. UNKNOWN

**14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)**

☐ A. RCRA 3001 DATE RECEIVED: \_\_\_\_/\_\_\_\_/\_\_\_\_ MONTH DAY YEAR    ☐ B. UNCONTROLLED WASTE SITE (RCRA 103 c) DATE RECEIVED: \_\_\_\_/\_\_\_\_/\_\_\_\_ MONTH DAY YEAR    ☒ C. NONE

**IV. CHARACTERIZATION OF POTENTIAL HAZARD**

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE <u>1/29/86</u> MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify)			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION <u>≈ 1979</u> BEGINNING YEAR    _____ ENDING YEAR <input type="checkbox"/> UNKNOWN			

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED  
high concentrations of lead found in ash, also EP toxic  
low levels of PCBs in ash slightly above background

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION  
contamination of soil on-site, potential for contamination of groundwater.

**V. PRIORITY ASSESSMENT**

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)  
☐ A. HIGH (Inspection required promptly)    ☐ B. MEDIUM (Inspection required)    ☒ C. LOW (Inspect on time available basis)    ☐ D. NONE (No further action needed, complete current disposition form)

**VI. INFORMATION AVAILABLE FROM**

01 CONTACT <u>Landon Garrant</u>		02 OF (Agency/Organization) <u>EPC (Columbia Field Office)</u>		03 TELEPHONE NUMBER <u>1502 384-4735</u>	
04 PERSON RESPONSIBLE FOR ASSESSMENT <u>C. Brad Lyon, Geologist</u>		05 AGENCY <u>EPC</u>	06 ORGANIZATION <u>Division of Waste Manag</u>	07 TELEPHONE NUMBER <u>1502 564-6716</u>	08 DATE <u>6/3/86</u> MONTH DAY YEAR

**APPENDIX A**

### REFERENCES

A comprehensive report on Elizabethtown, Kentucky, 1983. Kentucky Department of Economic Development.

Brown, R.F. and Lambert, T.W. 1963, "Availability of Groundwater in Breckinridge, Grayson, Hardin, Larue, and Meade Counties, Kentucky." HA-33 U.S. Department of the Interior.

Kentucky Natural Resources and Environmental Protection, Division of Waste Management files.

Kentucky Natural Resources and Environmental Protection, Division of Water, Active Public Drinking Water System Index Listing.

Moore, F.B., 1965, "Geologic map of the Sonora Quadrangle Hardin and Larue Counties Kentucky" GQ-492. U.S. Department of the Interior.

U.S.G.S. Sonora Quadrangle, 1967, 7.5 Minute series Topographic Map. U.S. Department of the Interior.

Air is also a route for contaminant migration due to the burning practices that occurred on site. Contaminants may have spread over a wide area during the years of the metal yard operation.

### POSSIBLE AFFECTED POPULATION AND RESOURCES

While studying the demographics within a three mile radius from the metal yard, a house count of 135 was taken from the 1967 USGS Sonora Quadrangle topographic map. With the suggested conversion factor from the HRS Users Manual, a total population potentially affected of 513 was derived.

Groundwater is the resource of concern that may be affected by contaminants from the metal yard. Surface water runoff could carry contaminants directly into the groundwater through sinkholes. Also, EP toxicity tests of ash from the metal yard indicate lead at 204 ppm. This high EP toxicity would enable lead to possibly leach into groundwater (Appendix C).

According to the USGS Hydrologic Atlas HA-33, most wells drilled into the St. Louis Limestone, Mississippian Meramec age, penetrate solution openings and are inadequate (less than 10 gpd) for domestic supplies with power pumps. However, major spring horizons have flows up to several thousand gallons per minute and many springs are used for public and industrial water supplies.

With the use of the Kentucky Division of Water Active Public Drinking Water System Listing and communications with Hardin County Water District #2, it was concluded that residents surrounding the metal yard use wells and cisterns for domestic drinking water supplies. Field work would be required to determine the <sup>exact</sup> populations utilizing groundwater (Appendix E). *A ranking based on an assumption that all 513 people have wells was considerably below 25.0*

### RECOMMENDATIONS AND JUSTIFICATIONS

The Division of Waste Management recommends the Division's Enforcement Branch send Mr. Carlie Middleton a Notice of Violation and Compliance conference letter to require him to determine cleanup measures necessary to remove contaminants from the metal yard. In addition to the enforcement action, the Division recommends a low priority for a site investigation performed by Kentucky's CERCLA PA/SI staff to determine if contaminants attributed to the metal yard have entered the groundwater and are possibly contaminating residential wells or springs.

These recommendations are justifiable due to the violation of KRS 224.842 by Mr. Carlie Middleton and the possibility for contamination of groundwater which is used by the rural county residents for drinking.

## **HISTORY OF SITE**

The Carlie Middleton Metal Yard is located in southern Hardin County, approximately four miles northeast of Sonora, Kentucky, at the intersection of State 1868 and Payne Road (Appendix B).

Site discovery was made by Landon Garrett, Division of Waste Management Columbia Field Office, while investigating another burn site operated by Carlie Middleton known as the Sonora site. Reportedly, the metal yard operation began in 1979 and is presently active. Contaminants were disposed on-site during metal salvaging activities which included burning tires, insulated wire and transformers. This operation has left considerable amounts of ash on-site (Appendix C).

## **NATURE OF HAZARDOUS MATERIALS**

The metal yard is approximately six acres with large volumes of scrap metal stored in piles throughout the site. The residual ash from burning activities are concentrated in the northern section of the metal yard (Appendix B). The total amount of ash on-site is estimated to be 100 + cubic yards.

Samples of the ash collected by field office personnel and analyzed by Kentucky's Department for Environmental Services indicate concentrations as high as 7950 ppm for lead and concentrations above background for barium, cadmium and chromium (Appendix C). EP toxicity test were performed on ash samples and the results indicate that lead is EP toxic at 204 ppm.

Reports of transformers burned at the site were confirmed during the February 29, 1986 preliminary site visit conducted by Division of Waste Management CERCLA PA/SI and Columbia Field Office personnel. Mr. Carlie Middleton reported that transformers were burned but also that oils were removed by the previous owners. Sample analyses revealed levels above background at less than 0.5 ppm for PCBs (Appendix C).

## **DESCRIPTION OF HAZARDOUS CONDITIONS, INCIDENTS, PERMIT VIOLATIONS**

Mr. Carlie Middleton was sent a Notice of Violation letter on September 24, 1985 in response to another burn site in Hardin County known as the Sonora Site. The Notice of Violation letter informed him that because he had land disposal waste material without a perm't from the Cabinet for Natural Resources and Environmental Protection, he had violated KRS 224.835. Because of the similarities in operation and waste disposal, the Carlie Middleton Metal Yard would also be in violation of KRS 224.835 (Appendix D).

## **ROUTES FOR CONTAMINATION**

The St. Louis Limestone, a soluble carbonate rock that forms a maturely karsted sinkhole plain, underlies the metal yard. Overland drainage in the area will eventually run underground via sinkholes. Groundwater will then flow toward an eventual base-level stream, probably the Nolin River, located approximately 0.9 miles Northeast from the site. Due to the characteristics of sinkhole plains, surface water in the form of intermittent or perennial streams are absent. Therefore, groundwater is the most probable route for contamination.

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**PRELIMINARY ASSESSMENT REPORT**  
**CARLIE MIDDLETON METAL YARD**  
**HARDIN COUNTY, KENTUCKY**

By  
C. Brad Lyon  
Uncontrolled Site Section  
Division of Waste Management  
June, 1986



Mr. Joel Veater  
Page 2  
June 10, 1986

7. A preliminary HRS was conducted on the groundwater and air routes. The score for this route combination was considerably below 25.0 and therefore would not be considered for the NPL.

Based on the above conclusions, the Division of Waste Management recommends that the Division's Enforcement Branch send Mr. Carlie Middleton a Notice of Violation and Compliance letter to require him to determine cleanup measures necessary to remove contaminants from the metal yard. In addition to this enforcement action, the Division recommends a low priority for a site investigation performed by Kentucky's CERCLA PA/SI staff. This investigation will determine if contamination attributed to the metal yard has occurred in domestic wells and springs.

If you have any questions, do not hesitate to contact this office.

Sincerely,



Caroline Patrick Haight  
Manager, Permit Review Branch  
Division of Waste Management

CPH:CBL:cg

cc: Don Curry  
Landon Garrett  
Joe Schmidt  
C. Brad Lyon

CHARLOTTE E. BALDWIN  
SECRETARY



1 8 0001B

MARTHA LAYNE COLLINS  
GOVERNOR

COMMONWEALTH OF KENTUCKY  
**NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET**  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

FORT BOONE PLAZA  
18 REILLY ROAD  
FRANKFORT, KENTUCKY 40601

11884

June 10, 1986

Mr. Joel Veater  
EPA CERCLA PA/SI Regional Project Officer  
U.S. Environmental Protection Agency  
345 Courtland Street, N.E.  
Atlanta, Ga. 30365

RE: Preliminary Assessment Report  
Carlie Middleton Metal Yard  
Hardin County, Kentucky  
EPA I.D. #KYD98-102-0142

Dear Mr. Veater:

Please find enclosed the preliminary assessment and all attachments pertaining to the Carlie Middleton Metal Yard. The Division of Waste Management has reached the following conclusions about the site.

1. Mr. Carlie Middleton also operated another burn site in Hardin County (Sonora Site EPA I.D. #KYD98-102-0027) where he was cited for violating KRS.835 regarding land disposal of waste without a permit. These two sites are similar in operation and waste disposal.
2. Transformers were burned at the site, and analyses of ash samples indicate PCBs less than 0.5 ppm.
3. Burning practices of this metal salvage operation have left considerable amounts of ash on site.
4. Analyses of ash samples revealed total lead concentration of 7950 ppm.
5. Contaminants may enter the groundwater directly through sinkholes located near the metal yard. Because of a high EP toxicity (204 ppm), lead may also be leached from the ash on site and contaminate groundwater.
6. Although there has been no field work performed, references concerning groundwater use and communications with the county water district suggest that some residents in this rural area use groundwater for drinking.

Nov 4 9 00 AM '85

## 7. Responsible Parties

A. Generator(s) Carlie MiddletonDIVISION OF  
WASTE MANAGEMENTB. Transporter(s) N/A

C. Site Owner(s)

Carlie Middleton  
(b)(6) Personal Privacy

(b)(6) Personal Privacy

D. Site Operator(s) Carlie Middleton8. Approximate Date(s) of Release, Storage, and/or Disposal 6 years  
1979-19859. Additional Comments: This Mr. Middleton is  
responsible for turning 2 sites  
in Hardin County (Arthur Priddy-site  
and Carlie Middleton-site) and 1 site  
at Royce Pilkinton's in Hart Co.10. Field Office Contact: Laundon Barrett & Don Curry

## SITE INVESTIGATION PLAN (Short Form)

Inspector Name

London Garrett

Site Name/Location

Cable Middleton, west of Nolan Hardin Co.

Investigation Objective &amp; Reason for Sampling

Open burning of transformers has been done for 15 or more years. To see if there are PCBs, metals or E.P. Toxic materials in the soil or ashes.

Waste types: Liquid

Solid

☒

Sludge

Gas

Characteristics:

Corrosive

☐

Ignitable

☐

Radioactive

☐

Volatile

☐

Toxic

☒

Reactive

☐

Unknown

☒

Other

☐☐

Facility Description: Size

Contains 6 acres, is a scrap metal Y

Principal Disposal Method

Sold to scrap buyer after burning.

Status (open, closed, unknown)

Open.

History (worker or non-worker injury; complaints from public, previous agency action, media interest, etc.)

Complaints from public and in community persons.

Hazard Evaluation

There could be contamination of groundwater. Burning of unknown material may be harmful to workers. There is a fire hazard. The air is polluted.

Safety plan

Level of protection (modifications)

Emergency #'s

Hospital

Police

Fire Dept.

Other

JUL 16 10 06 AM '85  
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 DIVISION OF  
 WASTE MANAGEMENT

Sampling

Number of samples: Water

Chemical Waste

Soil/Sediment

Other

Analysis requested

KENTUCKY DEPARTMENT FOR NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION  
BUREAU OF ENVIRONMENTAL PROTECTION

# CHAIN OF CUSTODY RECORD

TYPE OF INSPECTION: ☒ COMPLAINT ☐ COMPLIANCE ☐ EMERGENCY ☐ ENFORCEMENT ☐ UNCONTROLLED

SAMPLING LOCATION: Carley Middleton ~~and~~ Metal Yard West

I.D. NUMBER: Burning of Transformers to recover metal DATE: July

SAMPLE NUMBER	DATE TIME	STATION DESCRIPTION	METHOD	TYPE	SIZE	TYPE OF PRESERVATION
2139 1	July 12 1:15 PM	Background New Property line 150 ft. N back of Trainers	grab	GL WS	1 qt.	B02-1403 Refrigeration PC
2140 2	July 12 1:45 PM	Big pile of Ash about 21" deep	grab	GL WS	1 qt.	B02-1404 Refrigeration PC
				GL WS		
				GL WS		
				GL WS		
				GL WS		
				GL WS		

SAMPLERS (SIGNATURES)

RELINQUISHED BY (Signature)

Carley Middleton  
Representing Butseld

DATE

7-12-83

TIME

2:00 PM

RECEIVED BY (Signature)

Danlon Garrett  
Representing D W M

RELINQUISHED BY (Signature)

Danlon Garrett  
Representing D W M

DATE

7-15-83

TIME

10:35

RECEIVED BY (Signature)

Polly Ellis  
Representing D W M

White Copy - CENTRAL OFFICE  
Pink Copy - SHIPPER

Canary Copy - LABORATORY  
Goldenrod Copy - INSPECTOR

BEP5005

CHARLOTTE E. BALDWIN  
SECRETARY



COMMONWEALTH OF KENTUCKY  
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION COMMISSION  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

FORT BOONE PLAZA  
18 REILLY ROAD  
FRANKFORT, KENTUCKY 40601

September 9, 1985

MARTHA LAYNE COLLINS  
GOVERNOR

RECEIVED  
DIVISION OF  
WASTE MANAGEMENT  
SEP 10 2 32 PM '85

TO: Division of Waste Management  
#18 Reilly Road, Fort Boone Plaza  
Frankfort, Kentucky 40601

Re: Carley Middleton Metal Yard  
Hardin County

ATTN: Carl Schroeder

FROM: William E. Davis, Director *WED*  
Division of Environmental Services

Sample Collector: Landon Garrett Date: 07/12/85 Time: 1345

Sample Identification: Big Pile of Ash about 21 Inches Deep

REPORT OF ANALYSIS

Report No: B02-1404

SA No: 85-2140

Received: 07/15/85 Finished: 09/04/85 Approved: 09/05/85

Results: Total

PARAMETER

CONCENTRATION (mg/kg)

Arsenic	15.7
Barium	597
Cadmium	13.5
Chromium	39.6
Lead	7950
Mercury	0.020
Selenium	7.53
Silver	< 9.0
Hexachlorobenzene	< 0.1
Hexachlorocyclohexane, alpha isomer	< 0.1
Hexachlorocyclohexane, beta isomer	< 0.1
Hexachlorocyclohexane, gamma isomer	< 0.1
Hexachlorocyclohexane, delta isomer	< 0.1
Heptachlor	< 0.1
Aldrin	< 0.1
Heptachlor Epoxide	< 0.1
oxychlordane	< 0.1

Page 2 of 2 pages  
September 9, 1985

Report No: B02-1404  
SA No: 85-2140

t-Chlordane	< 0.1
c-Chlordane	< 0.1
t-Nonachlor	< 0.1
O, P <sup>+</sup> - DDE	< 0.1
P, P <sup>+</sup> - DDE	< 0.1
Dieldrin	< 0.1
Endrin	< 0.1
O, P <sup>+</sup> - DDD	< 0.1
P, P <sup>+</sup> - DDD	< 0.1
O, P <sup>+</sup> - DDT	< 0.1
P, P <sup>+</sup> - DDT	< 0.1
Total DDT	< 0.1
Methoxychlor	< 0.1
Mirex	< 0.1
Endosulfan I	< 0.1
Endosulfan II	< 0.1
Endosulfan Sulfate	< 0.1
Endrin Aldehyde	< 0.1
Endrin Ketone	< 0.1
Toxaphene	< 0.5
Technical Chlordane	< 0.5
Aroclor 1016	< 0.5
Aroclor 1221	< 0.5
Aroclor 1232	< 0.5
Aroclor 1242	< 0.5
Aroclor 1248	< 0.5
Aroclor 1254	< 0.5
Aroclor 1260	< 0.5
Aroclor 1262	< 0.5
Aroclor 1268	< 0.5

Results: EP Toxicity  
PARAMETER

Arsenic	<u>CONCENTRATION (mg/l)</u> 0.001
Barium	1.67
Cadmium	0.180
Chromium	< 0.20
Lead, Flame	204
Mercury	0.0002
Selenium	< 0.001
Silver	< 0.10

CHARLOTTE E. BALDWIN  
SECRETARY



MARTHA LAYNE COLLINS  
GOVERNOR

COMMONWEALTH OF KENTUCKY  
NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION CABINET  
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

FORT BOONE PLAZA  
18 REILLY ROAD  
FRANKFORT, KENTUCKY 40601

September 20, 1985

RECEIVED  
DIVISION OF  
WASTE MANAGEMENT

SEP 23 7 50 AM '85

TO: Division of Waste Management  
#18 Reilly Road, Fort Boone Plaza  
Frankfort, Kentucky 40601

Re: Carley Middleton Metal Yard  
Hardin County

ATTN: Carl Schroeder

FROM: William E. Davis, Director *WED*  
Division of Environmental Services

Sample Collector: Landon Garrett Date: 07/12/85 Time: 1315

Sample Identification: Property Line 150 Feet back of Trailer

REPORT OF ANALYSIS

Report No: B02-1403

SA No: 85-2139

Received: 07/15/85 Finished: 09/20/85 Approved: 09/20/85

**Results: Total**

<u>PARAMETER</u>	<u>CONCENTRATION (mg/kg)</u>
Arsenic	1.75
Barium	328
Cadmium	< 9.0
Chromium	17.8
Lead	< 47.0
Mercury	0.058
Selenium	< 0.100
Silver	< 9.0
Hexachlorobenzene	< 0.01
Hexachlorocyclohexane, alpha isomer	< 0.01
Hexachlorocyclohexane, beta isomer	< 0.01
Hexachlorocyclohexane, gamma isomer	< 0.01
Hexachlorocyclohexane, delta isomer	< 0.01
Heptachlor	< 0.01
Aldrin	< 0.01
Heptachlor Epoxide	< 0.01
oxychlordan	< 0.01
t-Chlordan	< 0.01
c-Chlordan	< 0.01



Page 2 of 2 pages  
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t-Nonachlor	< 0.01
O, P <sup>+</sup> - DDE	< 0.01
P, P <sup>+</sup> - DDE	< 0.01
Dieldrin	< 0.01
Endrin	< 0.01
O, P <sup>+</sup> - DDD	< 0.01
P, P <sup>+</sup> - DDD	< 0.01
O, P <sup>+</sup> - DDT	< 0.01
P, P <sup>+</sup> - DDT	< 0.01
Total DDT	< 0.01
Methoxychlor	< 0.01
Mirex	< 0.01
Endosulfan I	< 0.01
Endosulfan II	< 0.01
Endosulfan Sulfate	< 0.01
Endrin Aldehyde	< 0.01
Endrin Ketone	< 0.01
Toxaphene	< 0.1
Technical Chlordane	< 0.1
Aroclor 1016	< 0.1
Aroclor 1221	< 0.1
Aroclor 1232	< 0.1
Aroclor 1242	< 0.1
Aroclor 1248	< 0.1
Aroclor 1254	< 0.1
Aroclor 1260	< 0.1
Aroclor 1262	< 0.1
Aroclor 1268	< 0.1

Results: EP Toxicity  
PARAMETER

CONCENTRATION (mg/l)

Arsenic	< 0.001
Barium	< 1.00
Cadmium	< 0.10
Chromium	< 0.20
Lead	< 0.500
Mercury	< 0.0001
Selenium	< 0.001
Silver	< 0.10

1 8 0024

## **APPENDIX D**

September 24, 1985

CERTIFIED NO. P 588 512 589  
RETURN RECEIPT REQUESTED

Notice of Violation

Mr. Carlie Middleton  
(b)(6) Personal Privacy

RECEIVED  
SEP 25 11 04 AM '85  
WASTE MANAGEMENT

Dear Mr. Middleton:

An inspection was made of a piece of property apparently owned by Arthur Priddy located on Silver Knob Road approximately 100 yards from the junction of Melrose Bacon Creek Road. Apparently, this site has been used for the burning of tires, transformers, lubricants and possibly other materials.

By burning waste off metal scrap and allowing ash and contaminants in the ash from this operation to enter the soils, you have land disposed a waste material.

Analysis of samples of soil taken during this inspection on July 11, 1985, revealed concentrations of lead as high as 2620 (ppm) parts per million and barium 731 ppm on the site. A background sample of soil taken approximately 100 yards from the site revealed much lower concentrations. The lead concentration in the background sample was less than 43 ppm and the barium concentration was 88.8 ppm.

Disposing of these materials in this manner at a site not holding a permit for such disposal from the Cabinet for Natural Resources and Environmental Protection is a violation of KRS 224.835. This cabinet, under the authority of KRS 224.994, may access penalties up to \$1000 per violation, with each day a violation continues constituting a separate offense. Your liability for these penalties will continue to escalate until all continuing violations have been corrected.

1 8 0026

Mr. Carlle Middleton  
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September 24, 1985

Due to the seriousness of the violation discovered during the inspection, this matter has been turned over to the Division's Enforcement Branch for initiation of appropriate enforcement actions. If you have any questions, please direct them to Joseph Schmidt of the Division's Enforcement Branch at (502) 564-6716.

Sincerely,



Donald R. Curry  
Area Supervisor  
Division of Waste Management  
Columbia Field Office  
P. O. Box 335  
Columbia, Kentucky 42728  
Phone (502) 384-4735

DRC/jgh

cc: Carl Schroeder

SEP 25 11 04 AM '85  
WASTE MANAGEMENT  
DIVISION

**APPENDIX E**



RECEIVED AT SITE





LARGE JELLYMELON SCRAP METAL TRASH

